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Dated: April 23, 2003

Signature

(Monica L. Thomas)

Docket No.: HO-P02102US2
(PATENT)

#10,
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5/2/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Patent Application of:
Suzanne Fuqua, et al

Application No.: 10/052,092

Group Art Unit: 1632

Filed: January 18, 2002

Examiner: Bertoglio, Valarie

APR 28 2003

TECH CENTER 1600/2900

For: METHODS AND COMPOSITIONS IN
BREAST CANCER DIAGNOSIS AND
THERAPEUTICS

RESPONSE TO RESTRICTION REQUIREMENT

Commissioner for Patents
Washington, DC 20231

Dear Sir:

This is in response to the restriction requirement set forth in the Office Action mailed March 26, 2003.

The Examiner has required restriction between the following Groups:

Group I: Claim 1, drawn to a nucleic acid with an A908G mutation;

Group II: Claim 2, drawn to a polypeptide with a K303R substitution;

Group III: Claims 3-10, 12-14, 16-20, and 22, drawn to a method of detecting breast cancer using a nucleic acid assay and a kit comprising a nucleic acid primer for carrying out said method;

Group IV: Claims 3-9, 11-13, 15, 16-19, 21, and 24, drawn to a method of detecting breast cancer using immunoassay to detect an A908G mutation in an estrogen receptor alpha nucleic acid and a monoclonal antibody designed to bind an estrogen receptor alpha nucleic acid comprising an A908G mutation;

Group V: Claim 23, drawn to a monoclonal antibody that binds an acetylated estrogen receptor alpha polypeptide;

Group VI: Claims 25-32, drawn to a method of in vivo gene therapy to correct a G

mutation at nucleotide 908 of the estrogen receptor alpha nucleic acid sequence;

Group VII: Claims 33 and 34, drawn to a method of in vivo protein therapy to prevent breast cancer comprising administering a polypeptide comprising an estrogen receptor alpha sequence comprising a lysine residue at amino acid 303;

Group VIII: Claim 35, drawn to a method of identifying a modulator of a mutant estrogen receptor alpha K303R polypeptide in vitro by admixing the candidate modulator with a compound or cell;

Group IX: Claim 35, drawn to a method of identifying a modulator of a mutant estrogen receptor alpha K303R polypeptide in vivo;

Group X: Claims 36-44, drawn to a method of identifying a modulator of a mutant estrogen receptor alpha K303R polypeptide in vitro using recombinant cells comprising a vector encoding mutant estrogen receptor alpha K303R polypeptide and a vector comprising an estrogen-responsive regulatory element operably linked to a reporter polynucleotide;

Group XI: Claims 45 and 53, drawn to a method of treating breast cancer using an antagonist of a mutant estrogen receptor alpha K303R polypeptide;

Group XII: Claims 46-52, drawn to an in vitro method of identifying a polypeptide that interacts with an estrogen receptor alpha K303R polypeptide comprising introducing into a cell a vector comprising a chimeric estrogen receptor alpha K303R polypeptide and a DNA binding domain and a vector comprising a polynucleotide encoding a chimeric comprising a candidate polypeptide and a DNA activation domain;

Group XIII: Claims 54-56, drawn to an in vitro method of identifying a polypeptide that interacts with an estrogen receptor alpha K303R polypeptide comprising obtaining an affinity tagged estrogen receptor alpha K303R polypeptide, introducing said polypeptide to a plurality of bacteriophage that produce polypeptides and determining binding;

Group XIV: Claims 57-59, drawn to an in vivo method of identifying a compound for treatment of breast cancer;

Group XV: Claims 60-61, drawn to a compound having therapeutic activity for the treatment of breast cancer; and

Group XVI: Claims 62-63, drawn to a transgenic mouse comprising an estrogen receptor alpha having an A908G mutation.

Applicant hereby provisionally elects without traverse and without prejudice and acquiescence Group III having claims 3-10, 12-14, 16-20, and 22 for continued examination. Applicants reserve the right to pursue non-elected claims in other prosecution.

The Examiner furthermore set forth allegedly patentably distinct species for the claimed invention, namely Group A-G and Group H-X, and requested Applicants to elect a single disclosed species from each of these groups. Applicants contacted the Examiner in a telephonic interview of April 17, 2003 and requested clarification of these instructions. The Examiner clarified that it was not necessary to elect a species from a species Group if the claims were not directed to that element. Applicants thank the Examiner for her time and consideration.

Pursuant to the Examiner's requirement, Applicants elect SEQ ID NO:15 as a species for prosecution on the merits pursuant to the claims of Group III.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 06-2375, under Order No. HO-P02102US2 from which the undersigned is authorized to draw.

Dated: 04/23/03

Respectfully submitted,

By 

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PTO/SB/21 (08-00)

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TRANSMITTAL FORM

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Application Number

10/052,092

Filing Date

January 18, 2002

First Named Inventor

Suzanne Fuqua

Group Art Unit

1632

Examiner Name

V. Bertoglio

Attorney Docket Number

HO-P02102US2

ENCLOSURES (check all that apply)



Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)



Response to Missing Parts/
Incomplete Application



Response to Missing Parts
under 37 CFR 1.52 or 1.53



Assignment Papers
(for an Application)



Drawing(s)



Licensing-related Papers



Petition



Petition to Convert to a Provisional
Application



Power of Attorney, Revocation
Change of Correspondence Address



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Request for Refund



CD, Number of CD(s) _____



After Allowance Communication
to Group



Appeal Communication to Board of
Appeals and Interferences



Appeal Communication to Group
(Appeal Notice, Brief, Reply Brief)



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Firm
or
Individual Name

FULBRIGHT & JAWORSKI L.L.P.
Melissa W. Acosta

Signature

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Transmittal

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